

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	142102	(dispenser dispensing dispense nozzle valve spray spraying sprayer) same (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:29
S2	727820	(coat coating coated) same (substrate base layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:28
S3	9094	S1 and S2 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:55
S4	5741	((427/209,210,231,233,265,424, 425,427.1,427.2) or (118/321, 323)).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:57
S5	255	S3 and S4	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:57
S6	553942	(coat coating coated) with (substrate base layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:31
S7	34680	(dispenser dispensing dispense nozzle valve spray spraying sprayer) near4 (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:30
S8	70142	(dispenser dispensing dispense nozzle valve spray spraying sprayer) with (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:30
S9	3792	S6 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:32
S10	1993	S6 and S7	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:32
S11	3039	S9 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/19 07:32
S12	2305	S9 and (adhesive paste solder grease oil silicone epoxy emulsion)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:38
S13	188061	((("118") or ("427"))).clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:39

## EAST Search History

S14	541	S12 and S13	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:39
S15	1	("5382393").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/19 07:33

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3884	(427/209,210,231,233,265,425,424, 427.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 15:35
S2	136	S1 and (jetting valve) and (viscous material) and (dispensing)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 08:16
S3	561	S1 and (jetting valve) and (viscous material) and (non contact\$3 dispensing)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 12:25
S4	0	("604731616").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:04
S5	1	("4731616").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:30
S6	1	("6447847").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:30
S7	1	("5141165").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:50
S8	1	("5320250").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:31
S9	1	("5465879").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:16
S10	1	("5747102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:53
S11	1	("6068202").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:12
S12	1	("6253957").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:07
S13	1	("6267266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:01
S14	1	("6541304").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 10:55
S15	1	("4661368").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 11:31

## EAST Search History

S16	1369111	S1 and (jet\$3 valve) and (viscous liquid\$3) and (non contact\$3 dispens&8)or nozzle or substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 12:29
S17	2784902	S1 and perpendicular flow	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 12:30
S18	28	S1 and (perpendicular flow) adj substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 12:30
S19	1678	(427/209,210,231,233).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 15:35
S23	595	S19 and (non contacting) and (coating)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 15:45
S24	649	S19 and (non contacting) and (coat\$3 viscous liquids)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 15:55
S25	1178111	S19 and (non contacting) and (coat\$3 viscous liquids) on (substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 15:46
S26	980566	S19 and (non contacting) and (dispensing) and (viscous liquid) or (substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 15:57
S27	35	S19 and (non contacting) and (dispensing) and (viscous liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 16:08
S28	2	S19 and (non contacting) and (dispensing) and (flip chip)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 16:09
S29	5382818	method of coat\$3 with (viscous liquid) and (flip chip) or printed circuit board	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 16:14
S30	1246	(427/209,210).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 16:30
S31	3884	(427/209,210,231,233,265,424,425, 427.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/10 09:35
S32	1133796	S31 or jetting valve	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 09:37
S33	23241	S31 or jetting valve,spraying,gun, nozzle	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 09:38

## EAST Search History

S34	40	S31 and jetting valve,spraying,gun, nozzle	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 11:33
S35	2190	(jetting valve,spraying,gun, nozzle)same(oriented,non perpendicular, angle, oriented)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 09:41
S37	1289	S31 and spraying	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 11:33
S38	1288	S31 and nozzle	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 11:34
S39	397	S37 and valve	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 13:16
S42	314	S31 and dispensing	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 13:22
S44	344	S31 and droplet	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 13:43
S45	21	("4872417" "4951600" "4967933" "5052338" "5141165" "5320250" "5377913" "5465879" "5505777" "5711983" "5747102" "5837892" "5906682" "6068202" "6123268" "6132809" "6173864" "6253957" "6267266" "6447847" "6541304").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/10 16:23
S46	51	("6253957").URPN.	USPAT	OR	ON	2007/04/11 09:25
S47	0	("7201294").URPN.	USPAT	OR	ON	2007/04/11 09:26
S48	0	("7201294").URPN.	USPAT	OR	ON	2007/04/11 09:26

## EAST Search History

S49	79	("20060113326"   "3207369"   "3358885"   "3476293"   "3518410"   "3559850"   "3576279"   "3578945"   "3593894"   "3596056"   "3644707"   "3710978"   "3710985"   "3712512"   "3722753"   "3733460"   "3749880"   "3752155"   "3758002"   "3790003"   "3804537"   "3823851"   "3843022"   "3846614"   "3891827"   "3896973"   "3914576"   "3917121"   "3933276"   "3990612"   "3997083"   "4000834"   "4024987"   "4027786"   "4046289"   "4056707"   "4067480"   "4069949"   "4094446"   "4140247"   "4349131"   "4544085"   "4595131"   "4624395"   "4968166"   "4971229"   "4974319"   "5289951"   "5320250"   "5513771"   "5524792"   "5590582"   "5700991"   "5747102"   "5780819"   "5786573"   "5803317"   "5811766"   "5832178"   "5913455"   "5950867"   "5979796"   "6003733"   "6016935"   "6056160"   "6098524"   "6179162"   "6204485"   "6253957"   "6311868"   "6361752"   "6415957"   "6655552"   "6795645"   "6978912").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:26
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## EAST Search History

S50	79	( "20060113326"   "3207369"   "3358885"   "3476293"   "3518410"   "3559850"   "3576279"   "3578945"   "3593894"   "3596056"   "3644707"   "3710978"   "3710985"   "3712512"   "3722753"   "3733460"   "3749880"   "3752155"   "3758002"   "3790003"   "3804537"   "3823851"   "3843022"   "3846614"   "3891827"   "3896973"   "3914576"   "3917121"   "3933276"   "3990612"   "3997083"   "4000834"   "4024987"   "4027786"   "4046289"   "4056707"   "4067480"   "4069949"   "4094446"   "4140247"   "4349131"   "4544085"   "4595131"   "4624395"   "4968166"   "4971229"   "4974319"   "5289951"   "5320250"   "5513771"   "5524792"   "5590582"   "5700991"   "5747102"   "5780819"   "5786573"   "5803317"   "5811766"   "5832178"   "5913455"   "5950867"   "5979796"   "6003733"   "6016935"   "6056160"   "6098524"   "6179162"   "6204485"   "6253957"   "6311868"   "6361752"   "6415957"   "6655552"   "6795645"   "6978912").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:26
S51	1	( "2006/0113326").URPN.	USPAT	OR	ON	2007/04/11 09:26

## EAST Search History

S52	79	("20060113326"   "3207369"   "3358885"   "3476293"   "3518410"   "3559850"   "3576279"   "3578945"   "3593894"   "3596056"   "3644707"   "3710978"   "3710985"   "3712512"   "3722753"   "3733460"   "3749880"   "3752155"   "3758002"   "3790003"   "3804537"   "3823851"   "3843022"   "3846614"   "3891827"   "3896973"   "3914576"   "3917121"   "3933276"   "3990612"   "3997083"   "4000834"   "4024987"   "4027786"   "4046289"   "4056707"   "4067480"   "4069949"   "4094446"   "4140247"   "4349131"   "4544085"   "4595131"   "4624395"   "4968166"   "4971229"   "4974319"   "5289951"   "5320250"   "5513771"   "5524792"   "5590582"   "5700991"   "5747102"   "5780819"   "5786573"   "5803317"   "5811766"   "5832178"   "5913455"   "5950867"   "5979796"   "6003733"   "6016935"   "6056160"   "6098524"   "6179162"   "6204485"   "6253957"   "6311868"   "6361752"   "6415957"   "6655552"   "6795645"   "6978912").PN. OR ("7201294"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/11 09:27
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S1	142102	(dispenser dispensing dispense nozzle valve spray spraying sprayer) same (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:29
S2	727820	(coat coating coated) same (substrate base layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:28
S3	9094	S1 and S2 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:55
S4	5741	((427/209,210,231,233,265,424, 425,427.1,427.2) or (118/321, 323)).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:57
S5	255	S3 and S4	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 10:57
S6	553942	(coat coating coated) with (substrate base layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:31
S7	34680	(dispenser dispensing dispense nozzle valve spray spraying sprayer) near4 (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:30
S8	70142	(dispenser dispensing dispense nozzle valve spray spraying sprayer) with (nonperpendicular non?perpendicular oriented angular angled orient)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:30
S9	3792	S6 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:32
S10	1993	S6 and S7	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:32
S11	3039	S9 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/19 07:32
S12	2305	S9 and (adhesive paste solder grease oil silicone epoxy emulsion)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:38
S13	188061	((("118") or ("427"))).clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:39

## EAST Search History

S14	541	S12 and S13	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/18 11:39
S15	1	("5382393").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/19 07:33